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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
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NEWS	4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	7	Sep 03	JAPIO has been reloaded and enhanced
NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	11	Oct 24	BEILSTEIN adds new search fields
NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	13	Nov 18	DKILIT has been renamed APOLLIT
NEWS	14	Nov 25	More calculated properties added to REGISTRY
NEWS	15	Dec 04	CSA files on STN
NEWS	16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	17	Dec 17	TOXCENTER enhanced with additional content
NEWS	18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	20	Feb 13	CANCERLIT is no longer being updated
NEWS	21	Feb 24	METADEX enhancements
NEWS	22	Feb 24	PCTGEN now available on STN
NEWS	23	Feb 24	TEMA now available on STN
NEWS	24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	25	Feb 26	PCTFULL now contains images
NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	27	Mar 20	EVENTLINE will be removed from STN
NEWS	28	Mar 24	PATDPAFULL now available on STN
NEWS	29	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	30	Apr 11	Display formats in DGENE enhanced
NEWS	31	Apr 14	MEDLINE Reload
NEWS	32	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	33	Jun 13	Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS	34	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	35	Apr 28	RDISCLOSURE now available on STN
NEWS	36	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	38	May 15	Supporter information for ENCOMPAT and ENCOMPLIT updated
NEWS	39	May 16	CHEMREACT will be removed from STN
NEWS	40	May 19	Simultaneous left and right truncation added to WSCA
NEWS	41	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS	42	Jun 06	Simultaneous left and right truncation added to CBNB

NEWS 43 Jun 06 PASCAL enhanced with additional data
NEWS 44 Jun 20 2003 edition of the FSTA Thesaurus is now available

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 16:22:33 ON 24 JUN 2003

=> file medline, uspatful, dgene, embase, scisearch, fsta, jicst, wpids, hcaplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	1.47	1.47

FILE 'MEDLINE' ENTERED AT 16:26:35 ON 24 JUN 2003

FILE 'USPATFULL' ENTERED AT 16:26:35 ON 24 JUN 2003
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=> s lactacystin and immunosuppressive drug
L1 5 LACTACYSTIN AND IMMUNOSUPPRESSIVE DRUG

=> d l1 ti abs ibib tot

L1 ANSWER 1 OF 5 USPATFULL

TI Synergistic method for prolonging allograft survival
AB The invention relates to allograft transplantation. More particularly,
the invention relates to prolonging the survival of transplanted
allografts. The invention provides a new method for improving allograft
survival in a mammal. The method according to the invention provides a
synergistic effect between **lactacystin** or **lactacystin**
analogues and immunosuppressive drugs to prolong the survival of
transplanted allografts in a mammal.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:288078 USPATFULL
TITLE: Synergistic method for prolonging allograft survival
INVENTOR(S): Elliott, Peter J., Marlborough, MA, UNITED STATES
Hancock, Wayne W., Philadelphia, PA, UNITED STATES
PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., Cambridge, MA (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002160947	A1	20021031
APPLICATION INFO.:	US 2002-114602	A1	20020402 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-281088P	20010403 (60)
	US 2001-282535P	20010409 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HALE AND DORR, LLP, 60 STATE STREET, BOSTON, MA, 02109	
NUMBER OF CLAIMS:	13	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	274	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 2 OF 5 USPATFULL

TI Use of proteasome inhibitors for treating cancer, inflammation,
autoimmune disease, graft rejection and septic shock
AB The present invention relates to compositions comprising proteasome
inhibitors, such as **lactacystin**, DPBA and their analogs. These
compositions are used for the following purposes: (1) to disrupt
mitochondrial function (useful against cancer, inflammation, adverse
immune reaction and hyperthyroidism), (2) to disrupt nitric oxide
synthesis (useful against inflammation and septic shock), and (3) to
reverse ongoing adverse immune reactions, such as autoimmune diseases
and graft rejection. In the later case, the compositions can be
administered once the patients' T cells are mostly activated. Proteasome
inhibitors can also be combined to immuno-suppressive drugs like
rapamycin, cyclosporin A and FK506. Finally, a method for screening a
compound having a proteasome inhibition activity is also disclosed and
claimed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:92633 USPATFULL
TITLE: Use of proteasome inhibitors for treating cancer,
inflammation, autoimmune disease, graft rejection and
septic shock
INVENTOR(S): Wu, Jiangping, Brossard, CANADA
Wang, Xin, Montreal, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002049157	A1	20020425
APPLICATION INFO.:	US 2001-904251	A1	20010712 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1999-341009, filed
on 25 Aug 1999, PENDING A 371 of International Ser. No.
WO 1998-CA1010, filed on 29 Oct 1998, UNKNOWN

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-218145P	20000714 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	MERCHANT & GOULD PC, P.O. BOX 2903, MINNEAPOLIS, MN, 55402-0903	
NUMBER OF CLAIMS:	12	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	34 Drawing Page(s)	
LINE COUNT:	2010	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L1 ANSWER 3 OF 5 SCISEARCH COPYRIGHT 2003 THOMSON ISI
TI Rapamycin inhibits proteasome activator expression and proteasome activity
AB Rapamycin (RAPA) is a potent **immunosuppressive drug**
, and certain of its direct or indirect targets might be of vital
importance to the regulation of an immune response. In this study, we used
differential hybridization to search for human genes whose expression was
sensitive to RAPA. Seven RAPA-sensitive genes were found and one of them
encoded a protein with high homology to the ct subunit of a proteasome
activator (PA28 beta). This gene was later found to code for the IJ
subunit of the proteasome activator (PA28 beta). Activated T and B cells
had up-regulated PA28 beta expression at the mRNA level. Such
up-regulation could be suppressed by RAPA, FK506, and cyclosporin A. RAPA
and FK506 also repressed the up-regulated PA28 alpha messages in
phytohemagglutinin (PHA) stimulated T cells. At the protein level, RAPA
inhibited PA28 alpha and PA28 beta in the activated T cells according to
immunoblotting and confocal microscopy. Probably as a consequence, there
was a fourfold increase of proteasome activities in the peripheral blood
mononuclear cell lysate after the PHA activation. RAPA could inhibit the
enhanced part of the proteasome activity. Considering the critical role
played by the proteasome in degrading regulatory proteins, our data
suggest that the proteasome activator is a relevant and important
downstream target of rapamycin, and that the immune response could be
modulated through the activity of the proteasome.

ACCESSION NUMBER: 97:865944 SCISEARCH
THE GENUINE ARTICLE: YG422
TITLE: Rapamycin inhibits proteasome activator expression and
proteasome activity
AUTHOR: Wang X; Omura S; Szweda L I; Yang Y; Berard J; Seminaro J;
Wu J P (Reprint)
CORPORATE SOURCE: UNIV MONTREAL, NOTRE DAME HOSP, LC SIMARD RES CTR, PAVIL
DE SEVE Y-5616, 1560 SHERBROOKE ST E, MONTREAL, PQ H2L
4M1, CANADA (Reprint); UNIV MONTREAL, FAC MED, LOUIS
CHARLES SIMARD RES CTR, LAB TRANSPLANTAT IMMUNOL, DEPT
MED, MONTREAL, PQ H3C 3J7, CANADA; UNIV MONTREAL, FAC MED,
DEPT MED, SERV NEPHROL, MONTREAL, PQ H3C 3J7, CANADA;
KITASATO INST, TOKYO 108, JAPAN; CASE WESTERN RESERVE
UNIV, CLEVELAND, OH 44106; RW JOHNSON PHARMACEUT RES INST,
SAN DIEGO, CA 92121; UNIV SHERBROOKE, SHERBROOKE, PQ J1K
2R1, CANADA; MCGILL UNIV, DEPT SURG, MONTREAL, PQ H3A 2T5,
CANADA
COUNTRY OF AUTHOR: CANADA; JAPAN; USA
SOURCE: EUROPEAN JOURNAL OF IMMUNOLOGY, (NOV 1997) Vol. 27, No.
11, pp. 2781-2786.
Publisher: VCH PUBLISHERS INC, 303 NW 12TH AVE, DEERFIELD
BEACH, FL 33442-1788.
ISSN: 0014-2980.
DOCUMENT TYPE: Article; Journal

FILE SEGMENT: LIFE
LANGUAGE: English
REFERENCE COUNT: 40
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L1 ANSWER 4 OF 5 WPIDS (C) 2003 THOMSON DERWENT

TI Use of a proteasome inhibitor for reversing proliferation or activity of activated blood cells for treating cancer, inflammation, autoimmune disease, graft rejection and septic shock.

AN 2002-507279 [54] WPIDS

CR 1999-313169 [26]

AB US2002049157 A UPAB: 20020823

NOVELTY - A novel method for reversing an ongoing proliferation or activity, or both, of activated blood cells, comprises administering a proteasome inhibitor to an individual.

ACTIVITY - Immunosuppressive; Antiinflammatory; Antibacterial; Cytostatic.

MECHANISM OF ACTION - Proteasome inhibitor; inhibitors of CDK2 and Cyclin E.

The role of proteasome in T cell activation and proliferation was first examined in PBMC, using the proteasome-specific inhibitor LAC. The peripheral blood mononuclear cells (PBMC) were activated with various stimulants. LAC was added to the cells in the beginning of the culture (0 hours) along with the stimulants. 3H-thymidine uptake between 48 and 64 hours of 64 hour cultures was used as a parameter for cell proliferation. LAC strongly and dose-dependently inhibited the T cell proliferation induced by a T cell mitogen PHA by crosslinking TCR with anti-CD3 E, or by Ca++ ionophore plus cross-linking of the T cell co-stimulating molecule CD28. The T-cell-independent B cell proliferation induced with SAC plus IL-2 in tonsillar B cells was also potently inhibited by LAC. In all systems used, LAC at 5 micro M could exert near-to-maximal inhibition. The results suggest that LACs effect is not lymphocyte type (T or B cells)-specific nor stimulant-specific. It likely affects certain down-stream events governing a more general process in lymphocyte activation and proliferation.

USE - The methods can be used for treating an adverse immune response such as an autoimmune disease or a graft rejection, or inflammation or septic shock (claimed). The methods can be used for reversing an ongoing proliferation or activity which may result in activated blood cells apoptosis, or inhibition of energy and oxygen supply to the activated blood cells, or where the inhibition of energy and oxygen supply is caused by disrupting mitochondrial function in activated blood cells or disruption of nitric acid synthesis (claimed). The methods can also be used for treating e.g. cancers, hyperthyroidism and graft rejection.

The use of DPBA in organ transplantation-islet graft in streptozocin-induced diabetes in mice was studied. Islets from Balb/c mice in diabetic C57BL/6 recipients were used. The islets from syngeneic mice (isograft control) restored normal glycemia in diabetic mice, and the effect lasted more than 60 days as expected. The allogenic islets were rejected in about 10 days in untreated mice, and the mice became diabetic after an initial dip of their blood sugar level (allograft control). When the allogenic islets were transplanted to diabetic recipients along with DPBA treatment, the graft functioned normally beyond 60 days, indicating that the graft rejection was inhibited. This result showed that proteasome inhibitors as exemplified by DPBA can be used in human islet transplantation to prevent graft rejection. It was shown that a proteasome inhibitor such as DPBA inhibits the glucose elevation consequent to islet rejection.

ADVANTAGE - The proteasome inhibitors such as LAC and DPBA have shown an unique capacity to reverse an ongoing activity of blood cells. This reversal makes the possibility of treatment which selectively targets activated blood cells. The protease inhibitor are responsible for preventing allograft rejection for the first time successfully. Also an effective screening method for searching for other proteasome inhibitors

has been found.

Dwg.0/31

ACCESSION NUMBER: 2002-507279 [54] WPIDS
CROSS REFERENCE: 1999-313169 [26]
DOC. NO. CPI: C2002-144189
TITLE: Use of a proteasome inhibitor for reversing proliferation
or activity of activated blood cells for treating cancer,
inflammation, autoimmune disease, graft rejection and
septic shock.
DERWENT CLASS: B04 B05
INVENTOR(S): WANG, X; WU, J
PATENT ASSIGNEE(S): (WANG-I) WANG X; (WUJJ-I) WU J
COUNTRY COUNT: 1
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG

US 2002049157	A1	20020425	(200254)*		54

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE

US 2002049157 A1	CIP of	WO 1998-CA1010	19981029
	CIP of	US 1999-341009	19990825
	Provisional	US 2000-218145P	20000714
		US 2001-904251	20010712

PRIORITY APPLN. INFO: US 2000-218145P 20000714; WO 1998-CA1010
19981029; US 1999-341009 19990825; US
2001-904251 20010712

L1 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2003 ACS

TI Combination of **lactacystin** analog and **immunosuppressive drug** for the prolongation of allograft survival

AB The invention relates to allograft transplantation. More particularly, the invention relates to prolonging the survival of transplanted allografts. The invention provides a new method for improving allograft survival in a mammal. The method according to the invention provides a synergistic effect between **lactacystin** or **lactacystin** analogs and immunosuppressive drugs to prolong the survival of transplanted allografts in a mammal.

ACCESSION NUMBER: 2002:793409 HCAPLUS

DOCUMENT NUMBER: 137:288996

TITLE: Combination of **lactacystin** analog and **immunosuppressive drug** for the prolongation of allograft survival

INVENTOR(S): Hancock, Wayne W.; Elliott, Peter J.

PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2002080907	A1	20021017	WO 2002-US10278	20020402

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KN, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,				

RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
 VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002160947 A1 20021031 US 2002-114602 20020402
 PRIORITY APPLN. INFO.: US 2001-281088P P 20010403
 US 2001-282535P P 20010409
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s PHA
 L2 52589 PHA

=> d his

(FILE 'HOME' ENTERED AT 16:22:33 ON 24 JUN 2003)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, SCISEARCH, FSTA, JICST-EPLUS,
 WPIDS, HCAPLUS' ENTERED AT 16:26:35 ON 24 JUN 2003

L1 5 S LACTACYSTIN AND IMMUNOSUPPRESSIVE DRUG
 L2 52589 S PHA

=> s l1 and l2
 L3 3 L1 AND L2

=> d l3 ti abs ibib tot

L3 ANSWER 1 OF 3 USPATFULL

TI Use of proteasome inhibitors for treating cancer, inflammation,
 autoimmune disease, graft rejection and septic shock
 AB The present invention relates to compositions comprising proteasome
 inhibitors, such as **lactacystin**, DPBA and their analogs. These
 compositions are used for the following purposes: (1) to disrupt
 mitochondrial function (useful against cancer, inflammation, adverse
 immune reaction and hyperthyroidism), (2) to disrupt nitric oxide
 synthesis (useful against inflammation and septic shock), and (3) to
 reverse ongoing adverse immune reactions, such as autoimmune diseases
 and graft rejection. In the later case, the compositions can be
 administered once the patients' T cells are mostly activated. Proteasome
 inhibitors can also be combined to immuno-suppressinve drugs like
 rapamycin, cyclosporin A and FK506. Finally, a method for screening a
 compound having a proteasome inhibition activity is also disclosed and
 claimed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:92633 USPATFULL
 TITLE: Use of proteasome inhibitors for treating cancer,
 inflammation, autoimmune disease, graft rejection and
 septic shock
 INVENTOR(S): Wu, Jiangping, Brossard, CANADA
 Wang, Xin, Montreal, CANADA

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002049157	A1	20020425
APPLICATION INFO.:	US 2001-904251	A1	20010712 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-341009, filed on 25 Aug 1999, PENDING A 371 of International Ser. No. WO 1998-CA1010, filed on 29 Oct 1998, UNKNOWN		

NUMBER	DATE
-----	-----

PRIORITY INFORMATION: US 2000-218145P 20000714 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: MERCHANT & GOULD PC, P.O. BOX 2903, MINNEAPOLIS, MN,
55402-0903
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 34 Drawing Page(s)
LINE COUNT: 2010
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 3 SCISEARCH COPYRIGHT 2003 THOMSON ISI
TI Rapamycin inhibits proteasome activator expression and proteasome activity
AB Rapamycin (RAPA) is a potent **immunosuppressive drug**
, and certain of its direct or indirect targets might be of vital
importance to the regulation of an immune response. In this study, we used
differential hybridization to search for human genes whose expression was
sensitive to RAPA. Seven RAPA-sensitive genes were found and one of them
encoded a protein with high homology to the ct subunit of a proteasome
activator (PA28 beta). This gene was later found to code for the IJ
subunit of the proteasome activator (PA28 beta). Activated T and B cells
had up-regulated PA28 beta expression at the mRNA level. Such
up-regulation could be suppressed by RAPA, FK506, and cyclosporin A. RAPA
and FK506 also repressed the up-regulated PA28 alpha messages in
phytohemagglutinin (PHA) stimulated T cells. At the protein
level, RAPA inhibited PA28 alpha and PA28 beta in the activated T cells
according to immunoblotting and confocal microscopy. Probably as a
consequence, there was a fourfold increase of proteasome activities in the
peripheral blood mononuclear cell lysate after the PHA
activation. RAPA could inhibit the enhanced part of the proteasome
activity. Considering the critical role played by the proteasome in
degrading regulatory proteins, our data suggest that the proteasome
activator is a relevant and important downstream target of rapamycin, and
that the immune response could be modulated through the activity of the
proteasome.

ACCESSION NUMBER: 97:865944 SCISEARCH
THE GENUINE ARTICLE: YG422
TITLE: Rapamycin inhibits proteasome activator expression and
proteasome activity
AUTHOR: Wang X; Omura S; Szveda L I; Yang Y; Berard J; Seminaro J;
Wu J P (Reprint)
CORPORATE SOURCE: UNIV MONTREAL, NOTRE DAME HOSP, LC SIMARD RES CTR, PAVIL
DE SEVE Y-5616, 1560 SHERBROOKE ST E, MONTREAL, PQ H2L
4M1, CANADA (Reprint); UNIV MONTREAL, FAC MED, LOUIS
CHARLES SIMARD RES CTR, LAB TRANSPLANTAT IMMUNOL, DEPT
MED, MONTREAL, PQ H3C 3J7, CANADA; UNIV MONTREAL, FAC MED,
DEPT MED, SERV NEPHROL, MONTREAL, PQ H3C 3J7, CANADA;
KITASATO INST, TOKYO 108, JAPAN; CASE WESTERN RESERVE
UNIV, CLEVELAND, OH 44106; RW JOHNSON PHARMACEUT RES INST,
SAN DIEGO, CA 92121; UNIV SHERBROOKE, SHERBROOKE, PQ J1K
2R1, CANADA; MCGILL UNIV, DEPT SURG, MONTREAL, PQ H3A 2T5,
CANADA
COUNTRY OF AUTHOR: CANADA; JAPAN; USA
SOURCE: EUROPEAN JOURNAL OF IMMUNOLOGY, (NOV 1997) Vol. 27, No.
11, pp. 2781-2786.
Publisher: VCH PUBLISHERS INC, 303 NW 12TH AVE, DEERFIELD
BEACH, FL 33442-1788.
ISSN: 0014-2980.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: LIFE
LANGUAGE: English
REFERENCE COUNT: 40

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 3 OF 3 WPIDS (C) 2003 THOMSON DERWENT
TI Use of a proteasome inhibitor for reversing proliferation or activity of
activated blood cells for treating cancer, inflammation, autoimmune
disease, graft rejection and septic shock.

AN 2002-507279 [54] WPIDS

CR 1999-313169 [26]

AB US2002049157 A UPAB: 20020823

NOVELTY - A novel method for reversing an ongoing proliferation or
activity, or both, of activated blood cells, comprises administering a
proteasome inhibitor to an individual.

ACTIVITY - Immunosuppressive; Antiinflammatory; Antibacterial;
Cytostatic.

MECHANISM OF ACTION - Proteasome inhibitor; inhibitors of CDK2 and
Cyclin E.

The role of proteasome in T cell activation and proliferation was
first examined in PBMC, using the proteasome-specific inhibitor LAC. The
peripheral blood mononuclear cells (PBMC) were activated with various
stimulants. LAC was added to the cells in the beginning of the culture (0
hours) along with the stimulants. 3H-thymidine uptake between 48 and 64
hours of 64 hour cultures was used as a parameter for cell proliferation.
LAC strongly and dose-dependently inhibited the T cell proliferation
induced by a T cell mitogen PHA by crosslinking TCR with
anti-CD3 E, or by Ca++ ionophore plus cross-linking of the T cell
co-stimulating molecule CD28. The T-cell-independent B cell proliferation
induced with SAC plus IL-2 in tonsillar B cells was also potently
inhibited by LAC. In all systems used, LAC at 5 micro M could exert
near-to-maximal inhibition. The results suggest that LACs effect is not
lymphocyte type (T or B cells)-specific nor stimulant-specific. It likely
affects certain down-stream events governing a more general process in
lymphocyte activation and proliferation.

USE - The methods can be used for treating an adverse immune response
such as an autoimmune disease or a graft rejection, or inflammation or
septic shock (claimed). The methods can be used for reversing an ongoing
proliferation or activity which may result in activated blood cells
apoptosis, or inhibition of energy and oxygen supply to the activated
blood cells, or where the inhibition of energy and oxygen supply is caused
by disrupting mitochondrial function in activated blood cells or
disruption of nitric acid synthesis (claimed). The methods can also be
used for treating e.g. cancers, hyperthyroidism and graft rejection.

The use of DPBA in organ transplantation-islet graft in
streptozocin-induced diabetes in mice was studied. Islets from Balb/c mice
in diabetic C57BL/6 recipients were used. The islets from syngeneic mice
(isograft control) restored normal glycemia in diabetic mice, and the
effect lasted more than 60 days as expected. The allogenic islets were
rejected in about 10 days in untreated mice, and the mice became diabetic
after an initial dip of their blood sugar level (allograft control). When
the allogenic islets were transplanted to diabetic recipients along with
DPBA treatment, the graft functioned normally beyond 60 days, indicating
that the graft rejection was inhibited. This result showed that proteasome
inhibitors as exemplified by DPBA can be used in human islet
transplantation to prevent graft rejection. It was shown that a proteasome
inhibitor such as DPBA inhibits the glucose elevation consequent to islet
rejection.

ADVANTAGE - The proteasome inhibitors such as LAC and DPBA have shown
an unique capacity to reverse an ongoing activity of blood cells. This
reversal makes the possibility of treatment which selectively targets
activated blood cells. The protease inhibitor are responsible for
preventing allograft rejection for the first time successfully. Also an
effective screening method for searching for other proteasome inhibitors
has been found.

Dwg.0/31

ACCESSION NUMBER: 2002-507279 [54] WPIDS

CROSS REFERENCE: 1999-313169 [26]

DOC. NO. CPI: C2002-144189

TITLE: Use of a proteasome inhibitor for reversing proliferation or activity of activated blood cells for treating cancer, inflammation, autoimmune disease, graft rejection and septic shock.

DERWENT CLASS: B04 B05

INVENTOR(S): WANG, X; WU, J

PATENT ASSIGNEE(S): (WANG-I) WANG X; (WUJJ-I) WU J

COUNTRY COUNT: 1

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
US 2002049157	A1	20020425	(200254)*		54

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 2002049157	A1	CIP of	WO 1998-CA1010 19981029
		CIP of	US 1999-341009 19990825
		Provisional	US 2000-218145P 20000714
			US 2001-904251 20010712

PRIORITY APPLN. INFO: US 2000-218145P 20000714; WO 1998-CA1010 19981029; US 1999-341009 19990825; US 2001-904251 20010712

=> d his

(FILE 'HOME' ENTERED AT 16:22:33 ON 24 JUN 2003)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, SCISEARCH, FSTA, JICST-EPLUS, WPIDS, HCAPLUS' ENTERED AT 16:26:35 ON 24 JUN 2003

L1 5 S LACTACYSTIN AND IMMUNOSUPPRESSIVE DRUG

L2 52589 S PHA

L3 3 S L1 AND L2

=> e Wu, J/au

E1	87	WU ZUZE/AU
E2	1	WU ZUZU/AU
E3	0 -->	WU, J/AU
E4	1	WUA H H/AU
E5	1	WUADE U/AU
E6	1	WUAGH D/AU
E7	2	WUAGNEUX D/AU
E8	1	WUAHOJU G/AU
E9	1	WUAK M/AU
E10	1	WUALMANN H/AU
E11	8	WUAMETT J D/AU
E12	1	WUAN G Y/AU

=> e wang, X/au

E1	1	WANG ZXINGTAI/AU
E2	2	WANG ZYX/AU
E3	0 -->	WANG, X/AU
E4	1	WANG1 Y/AU
E5	1	WANGA A P/AU
E6	1	WANGA C/AU
E7	1	WANGA C C/AU
E8	1	WANGA D/AU
E9	1	WANGA D B/AU
E10	1	WANGA G/AU

E11 1 WANGA G J/AU
E12 1 WANGA I/AU

=> s el
L4 1 "WANG ZXINGTAI"/AU

=> d l4 ti abs ibib tot

L4 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS
TI Application of synthetic peptides in detection of antibody to hepatitis G virus
AB According to the hepatitis G virus (HGV) protein amino acid sequences, 4 peptides from different regions were selected based on computer anal. of the hydrophility and antigenic epitopes and were synthesized by the conventional solid phase method. With the synthetic peptides, an indirect ELISA was developed to detect anti-HGV IgG. Among 57 sera from non A-3 hepatitis patients, 20 were pos. for anti-HGV IgG, the pos. rate was 35.09% (20/57), 14 were pos. for HGV RNA, the pos. rate was 24.56% (14/57). We also tested 30 sera from hepatitis A patients, 10 from hepatitis B and 46 from hepatitis C, and the pos. rates for anti-HGV IgG were 3.33%, 10% and 8.70% resp. The coinfection rate is relatively high in viral hepatitis patients in China. Therefore HGV infection should be given attention to in the differential diagnosis of hepatitis.

ACCESSION NUMBER: 1997:418088 HCAPLUS
DOCUMENT NUMBER: 127:107679
TITLE: Application of synthetic peptides in detection of antibody to hepatitis G virus
AUTHOR(S): Mao, Panyong, Hong, Shiwen; Hong, Shiwen; He, Hongxia; Hu, Yan; Wang, zXingtai; Zhu, Chuanlin; Lou, Min; Liang, Yong; Yang, Jianyang; Ju, Liancai; Bai, Yanping
CORPORATE SOURCE: Dep. Virol., PLA Hosp., Beijing, 10039, Peop. Rep. China
SOURCE: Zhonghua Shiyen He Linchuang Bingduxue Zazhi (1996), 10(4), 371-373
CODEN: ZSLZFS; ISSN: 1003-9279
PUBLISHER: Weishengbu Wuhan Shengwu Zhipin Yanjiuso
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

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FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, SCISEARCH, FSTA, JICST-EPLUS, WPIDS, HCAPLUS' ENTERED AT 16:26:35 ON 24 JUN 2003

L1 5 S LACTACYSTIN AND IMMUNOSUPPRESSIVE DRUG
L2 52589 S PHA
L3 3 S L1 AND L2
E WU, J/AU
E WANG, X/AU
L4 1 S E1